



**U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY**

TRIBAL ENERGY PROGRAM



FY2003 Program and Project Review Meeting

November 17, 2003

Lizana Pierce

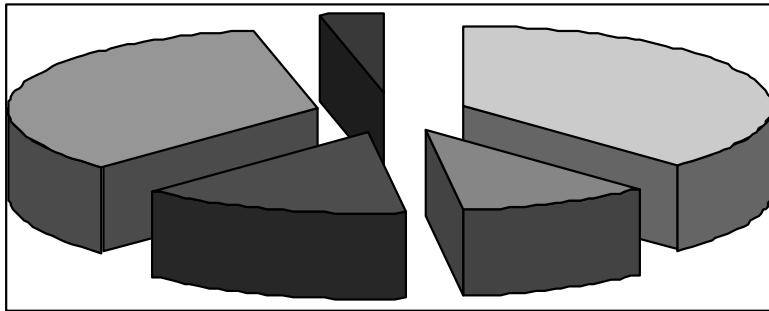
DOE, Golden Field Office



Department of Energy

**Advancing Energy and National Security through
Science, Technology and Environmental Stewardship**

DOE Budget of \$23.4 Billion



□	NNSA (37.8%)
■	Energy (10.5%)
■	Science (14.2%)
■	Environment (34.4%)
■	Corporate Management (3.1%)

Energy (\$2.45 Billion) includes:

- **Energy Efficiency and Renewable Energy (\$1.3)**
- **Fossil Energy (\$0.75)**
- **Nuclear Energy, Science and Technology (\$0.38)**





DOE's Office of Energy Efficiency and Renewable Energy (EERE)

EERE's Mission

The EERE's mission is to strengthen America's energy security, environmental quality, and economic vitality in public-private partnerships that:

- Enhance energy efficiency and productivity;
- Bring clean, reliable and affordable energy technologies to the marketplace; and
- Make a difference in the everyday lives of Americans by enhancing their energy choices and their quality of life.

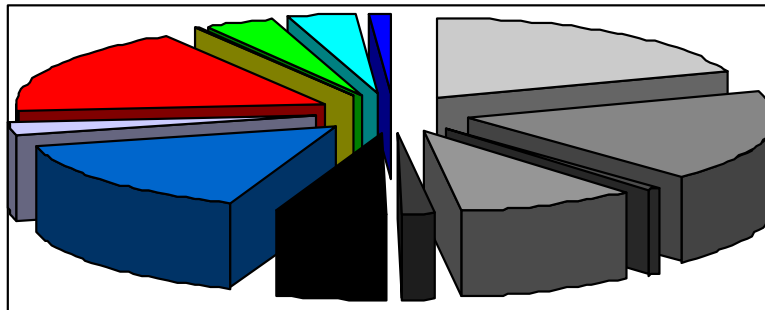




DOE's Office of Energy Efficiency and Renewable Energy

\$1.3 Billion Total EERE Budget Request (FY2004)

**Energy & Water Development
Request \$444.2 Million**

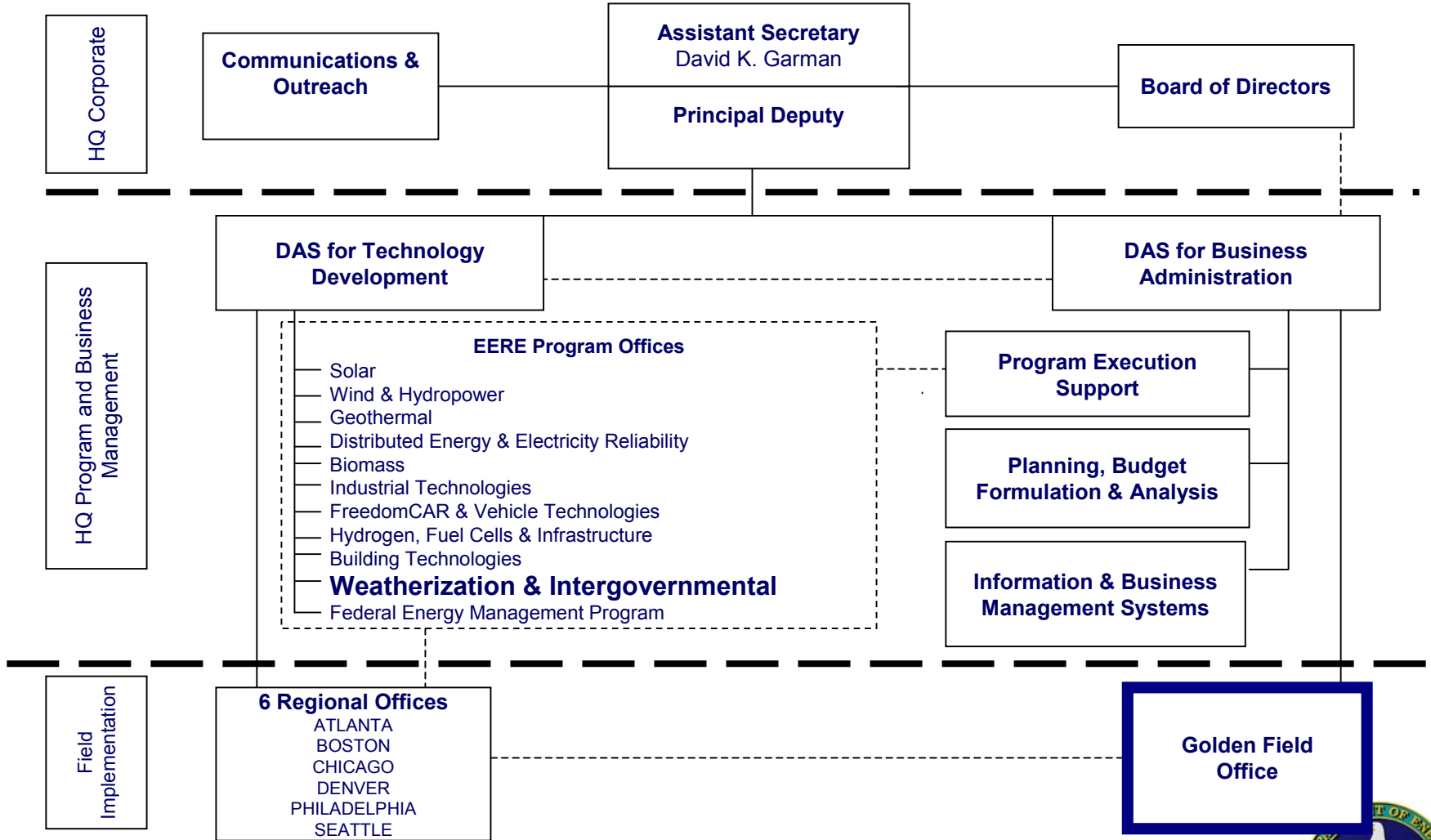


- ☐ Hydrogen
- ☐ Solar Energy
- ☐ Zero-Energy Buildings
- ☐ Wind Energy
- ☐ Hydropower
- ☐ Geothermal
- ☐ Biomass/Biorefinery Systems R&D
- ☐ Intergovernmental Activities
- ☐ Electric Reliability
- ☐ Energy Management
- ☐ NCCTI
- ☐ Program Direction
- ☐ Facilities & Infrastructure

**Tribal Energy Requested
FY2004 Budget: \$6 Million**



Office of Energy Efficiency and Renewable Energy





Renewable Energy Resources





Renewable Energy Technologies





DOE's Tribal Energy Program

Tribal Energy Program

Promote tribal energy self-sufficiency and foster employment and economic development on tribal lands through the use of renewable energy



Authority

Section 2606 of Title XXVI Energy Policy Act of 1992 (P.L. 102-486)





DOE's Tribal Energy Program

Tribal Energy Program

“Indian land comprises 5% of the land area of the United States, but contains an estimated 10% of all energy resources in the United States”

“Wind resources in the Great Plains could meet 75% of the electricity demand in the contiguous 48 states.” (Native American Energy Development and Self-Determination Act of 2003)

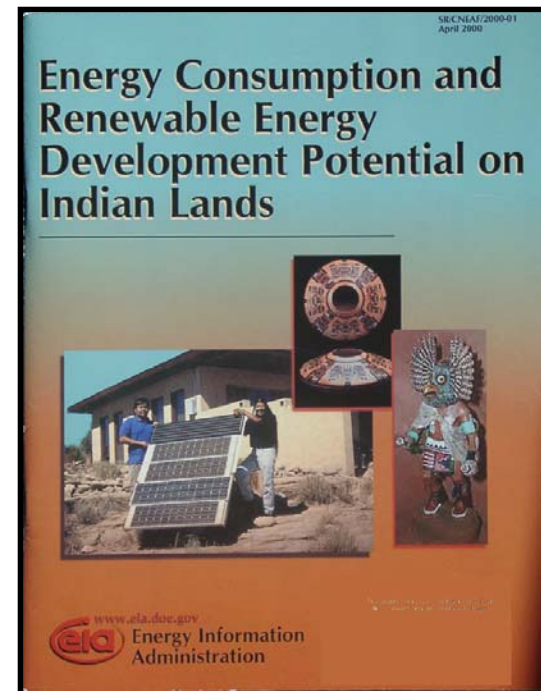




DOE's Tribal Energy Program

Tribal Energy Program

“Indian households on reservations are disproportionately without electricity. A total of 14.2% of Indian households have no access to electricity, as compared to only 1.4% of all U.S. households.” Navajo accounts for 75% of the households without electricity (2000 EIA Report)





DOE's Tribal Energy Program

Tribal Energy Program

Assist Tribes Meet Their Energy Goals

Developing in Cooperation with Tribes

- Peer Review (November 2001)
- Strategy Session (December 2001)
- Tribal Energy "Handbook" Workshop (December 2002)
- Collaborative activities with Tribal and Inter-Tribal Groups

Providing Funding Opportunities

- Competitive Solicitations

Supporting Government-to-Government Relations

- Cooperative agreements between DOE and the Tribes





DOE's Tribal Energy Program

Tribal Energy Program

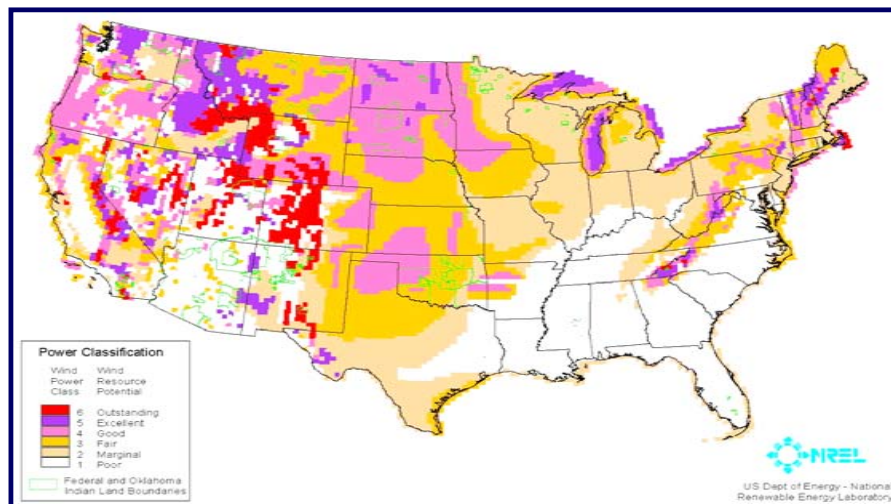
Providing Information and Technical Assistance

Technical Assistance

- Expert Advise
- Models and Tools
- Resource Maps

Information and Support

- Regional Workshops
- Program Brochure
- Tribal Energy Website
- Guide for Tribal Energy Development (Under development)





DOE's Tribal Energy Program **Funding Opportunities**

First Steps Toward Developing Renewable Energy and Energy Efficiency

- Strategic planning
- Energy options analysis
- Capacity building
- Organizational development



Chairman Tex Hall, Three Affiliated Tribes
Ground Breaking for Wind Turbine on the Fort
Berthold Reservation

Renewable Energy Development on Tribal Lands

- Feasibility studies
- Development projects (cost shared)

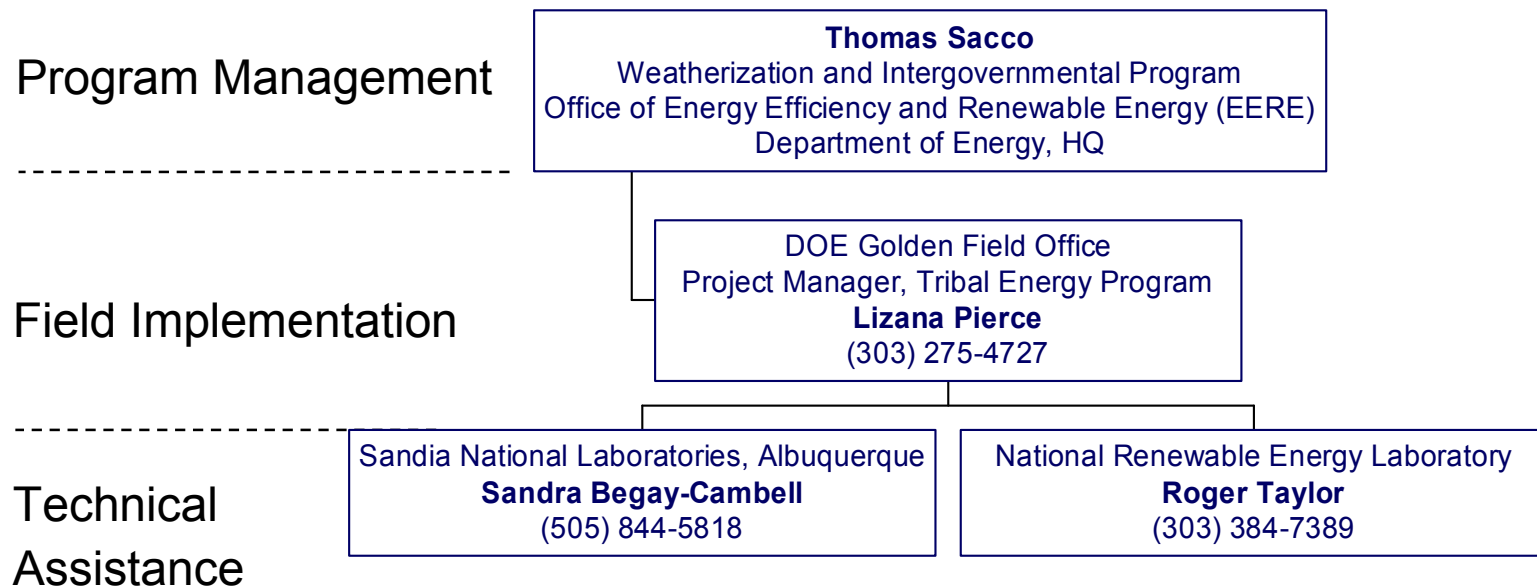




DOE's Tribal Energy Program

Tribal Energy Program Organization

Program Management through DOE Headquarters, implementation through the DOE Golden Field Office, and technical support through the DOE's Laboratories.





Tribal Energy Program History

**BETWEEN FY1994 AND FY2001, DOE FUNDED 51 PROJECTS
TOTALING OVER \$9.5 MILLION**

Title XXVI Projects (Funded FY1994)

-35 Projects in 13 States (\$6.5 million)

Remote Applications Projects (Funded FY99)

-8 Projects in 5 States (\$1.9 million)

Tribal Colleges and Universities (Funded FY00-01)

-7 Feasibility Studies in 6 States (\$700,000)

-1 Project in New Mexico (\$431,000)



**Solar Installation on
Navajo Nation**





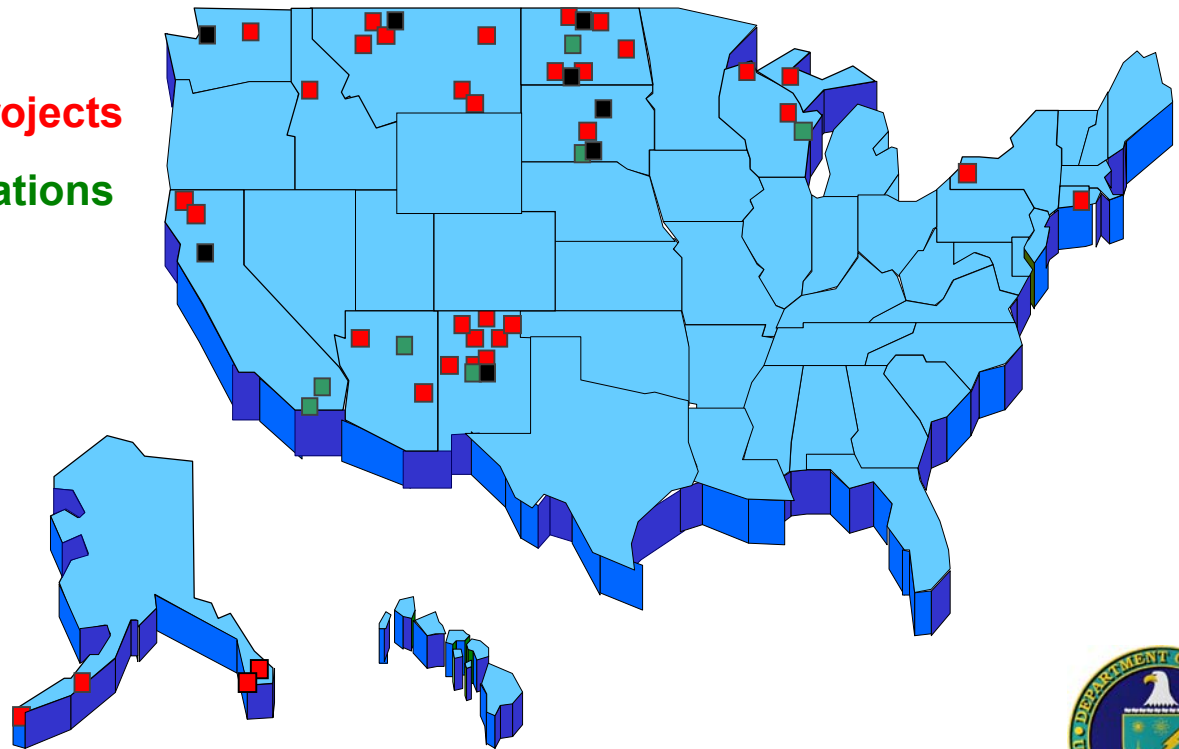
Tribal Energy Program History

**BETWEEN FY 1994 AND FY 2001, DOE FUNDED 51
PROJECTS TOTALING OVER \$9.5 MILLION**

■ = FY1994-98 Title XXVI Projects

■ = FY1999 Remote Applications
Projects

■ = FY2000-01 Colleges &
Universities Projects





Renewable Energy Projects on Tribal Lands



**Nez Perce Tribe
Biodiesel Pilot Project**

**Ute Mountain Indian
Reservation
PV Water Pumping**



**Turtle Mountain
Band of
Chippewa Tribe
Wind Resource
Assessment**



**Blackfeet Tribe
Small-Scale
Utility Grade
Wind Turbine
Project**





Renewable Energy Projects on Tribal Lands



**Pueblo of Laguna
(Majors Ranch)**

**Solar and Wind
Installations**



**Navajo Nation
(Dilkon/Teesto
Chapters)**

**PV Arrays on
Navajo Homes**



Jicarilla Apache Reservation PV Array on Dulce High School





Renewable Energy Projects on Tribal Lands

Utility Scale Wind Turbine
Rosebud Sioux Indian Reservation



Oneida Tribe of Indians of Wisconsin Solar Project





DOE's Office of Energy Efficiency and Renewable Energy

Tribal Energy Projects

**TOTAL OF 22 PROJECTS TOTALING \$4.6 MILLION
FUNDED FROM FY2002 SOLICITATION**

Renewable Energy Projects (Funded FY2002)

- 12 Feasibility Studies in 12 States (\$900,000)
- 2 Development Projects in 2 States (\$2,200,000)

Renewable Energy Projects (Funded FY2003)

- 8 Feasibility Studies in 8 States (\$1,500,000)

**Rosebud Sioux Reservation,
July 4 Celebration**





Tribal Energy Projects

**TOTAL OF 22 PROJECTS TOTALING \$4.6 MILLION
FUNDED FROM FY2002 SOLICITATION**

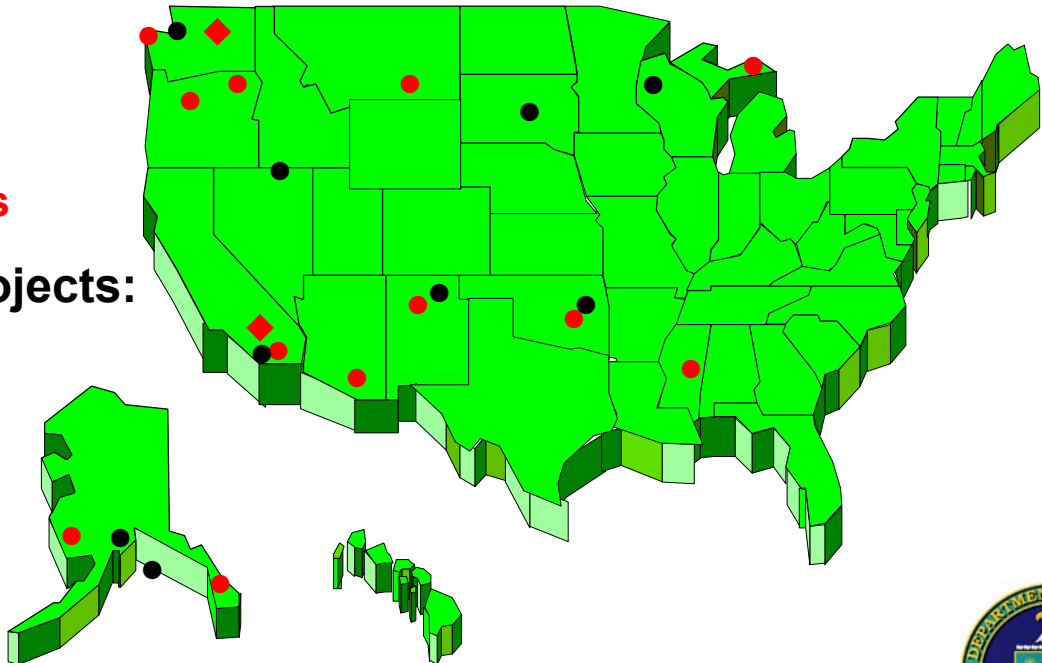
FY2002 Funded Projects:

● = 12 Feasibility Studies

◆ = 2 Developmental Projects

FY2003 Funded FY2002 Projects:

● = 8 Feasibility Studies





DOE's Office of Energy Efficiency and Renewable Energy FY2002 Tribal Energy Projects

Colville Confederate Tribes (WA)

Umatilla Indian Reservation (OR)

Confederate Tribes of Warm Springs (OR)

Kaw Nation of Oklahoma (OK)

Makah Tribe (WA)

Manzanita Band of Mission Indians (CA)

Mississippi Band of Choctaw Indians (MI)

Northern Cheyenne Nation (MT)

Sealaska Native Corporation (AK)

Pueblo of Jemez (NM)

**Ramona Band of Cahuilla Mission Indians
(CA)**

Sault Ste. Marie Tribe (MI)

White Mountain Apache Tribe (AZ)

Yukon-Kuskokwim Health Corporation (AK)

Bristol Bay Native Corporation (AK)

Cherokee Nation (OK)

Lower Brule Sioux Tribe (SD)

Shoshone Paiute Tribes (NV)

St. Croix Tribal Government (WI)

Taos Pueblo (NM)

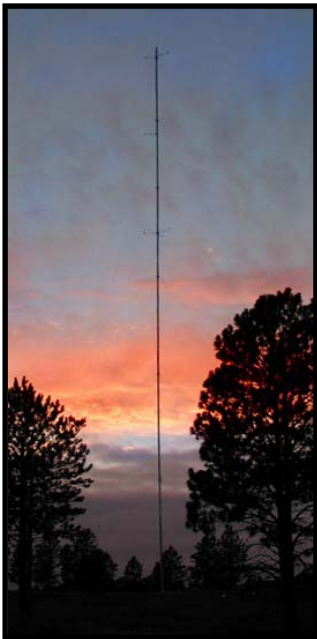
Tulalip Tribe (WA)

Viejas Tribal Government (CA)



FY2002 Renewable Energy Projects

Northern Cheyenne Nation Wind Resource Assessment



Kaw Nation Wind Resource Assessment



Colville Indian Power and Veneer Energy Substation





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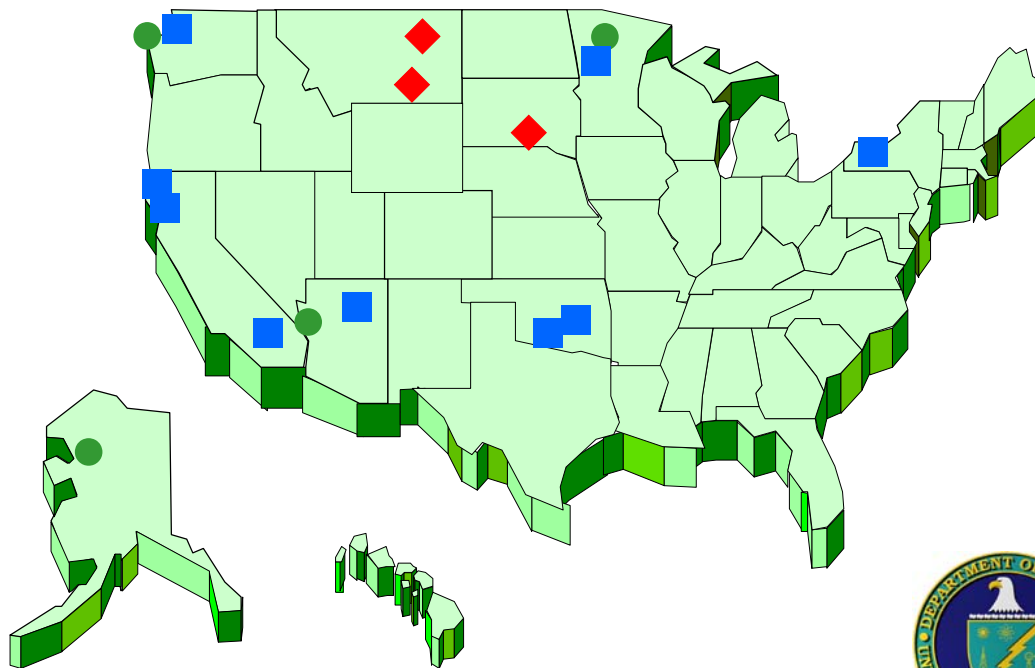
DOE Awarded \$2.9 Million to 16 Tribal Clean Energy Projects

FY2003 PROJECTS:

◆ = 3 DEVELOPMENTAL
PROJECTS

● = 4 FEASIBILITY STUDIES

■ = 9 FIRST STEPS STUDIES





FY2003 Tribal Energy Projects

Seven Projects in 6 States

Rosebud Sioux Tribe (SD)

Northern Cheyenne Tribe, Inc. (MT)

Assiniboine & Sioux Tribes of the Fort
Peck Reservation (MT)

Native Village of Venetie (AK)

The Makah Indian Nation (WA)

Red Lake Band of Chippewa Indians (MN)

Fort Mojave Tribe (AZ)

Nine First Step Studies in 6 States

The Hopi Tribe (AZ)

Smith River Rancheria (CA)

Cabazon Band of Mission Indians (CA)

Seneca Nation of Indians (NY)

White Earth Reservation (MN)

Citizen Potawatomi Nation (OK)

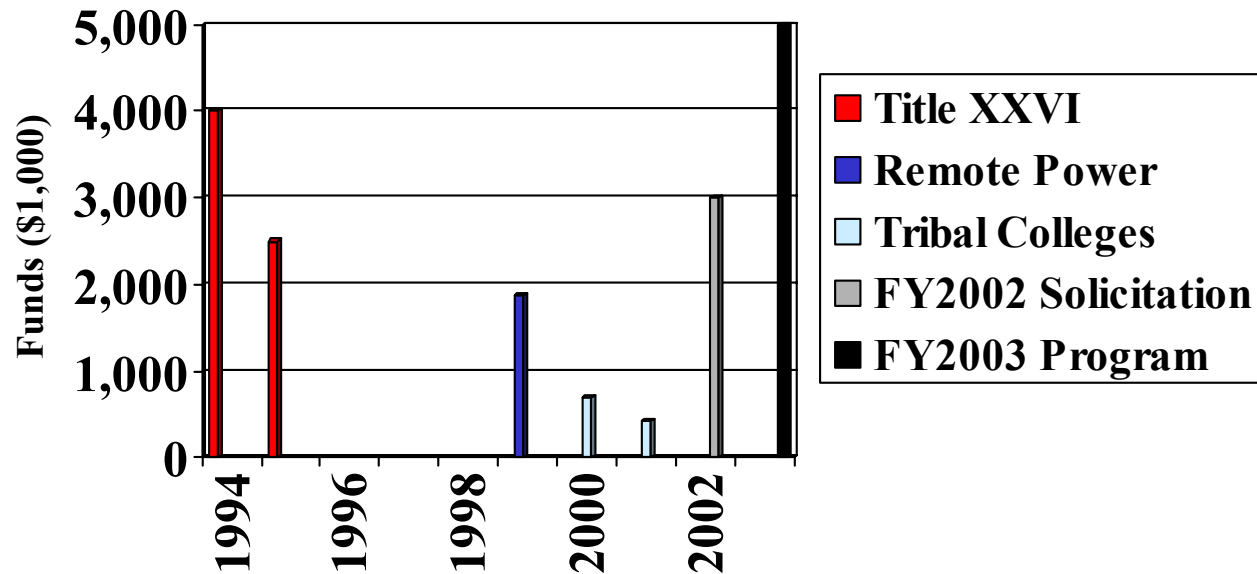
Fort Sill Apache Tribe of Oklahoma (OK)

Yurok Tribe (CA)

Samish Indian Nation (WA)



Tribal Energy Program Funding



	1994	1995	1999	2000	2001	2002	2003
Title XXVI	4,000	2,500					
Remote Power			1,900				
Tribal Colleges				700	430		
FY 2002 Solicitation						3,000	
FY2003 Program*							5,000
* Congress appropriated \$6,000 with \$1,000 being non-discretionary							





DOE's Tribal Energy Program Funding

FY2002	FY2003	FY2003	FY2004
Enacted	Requested	Enacted	Requested
\$3,000	\$8,307	\$6,000*	\$6,000

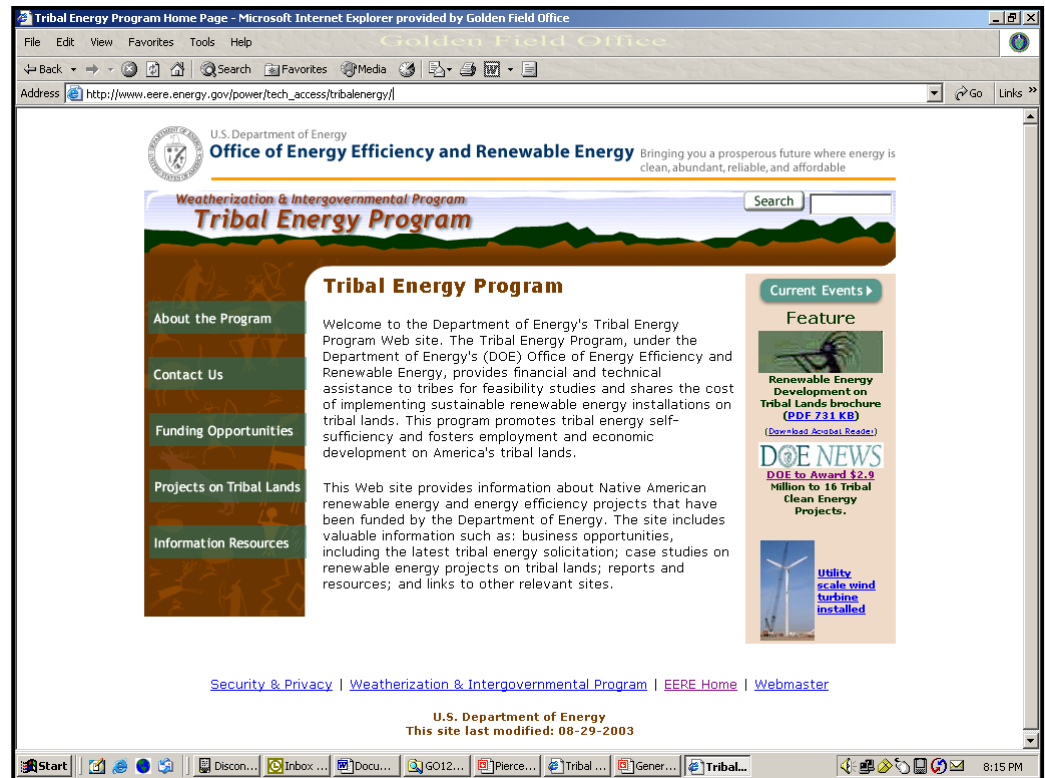
* Includes \$1,000 for Council of Energy Resource Tribes (CERT)





Tribal Energy Web Site

- Features
- Current Events
- Funding Opportunities
- Projects on Tribal Lands
 - Project Overviews
 - Status and Reports
 - Contacts
- Information Resource
- Contacts



Tribal Energy Program www.eere.energy.gov/tribalenergy





Tribal Energy Funding Opportunities

Announcements

Tribal Energy Program

www.eere.energy.gov/tribalenergy

Federal Grant Opportunities

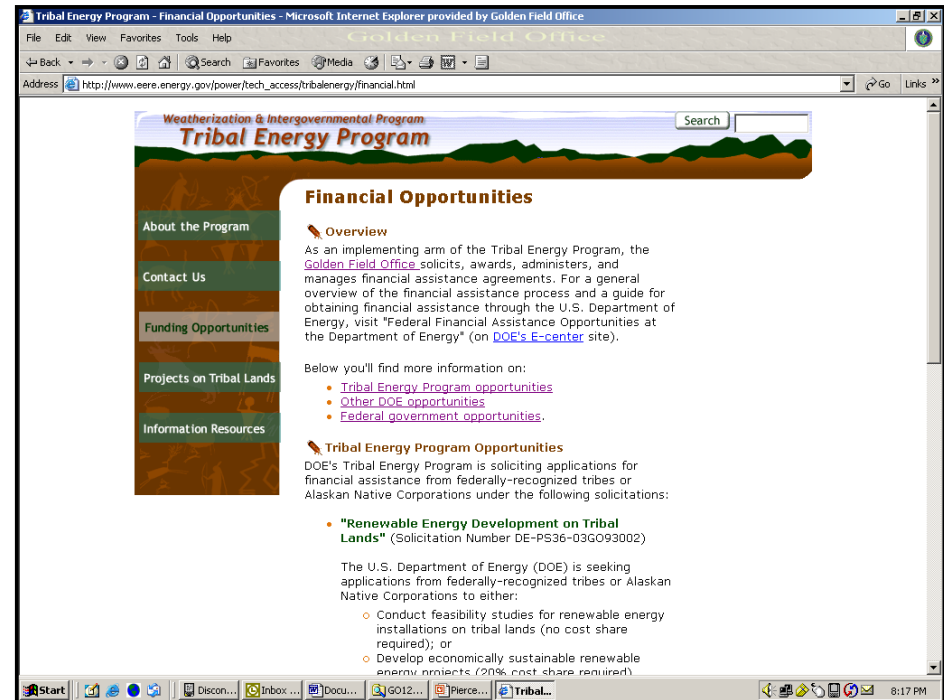
www.fedgrants.gov/

Federal Funding Opportunities

www.fedbizopps.gov/

Electronic Application Submissions

<http://e-center.doe.gov>



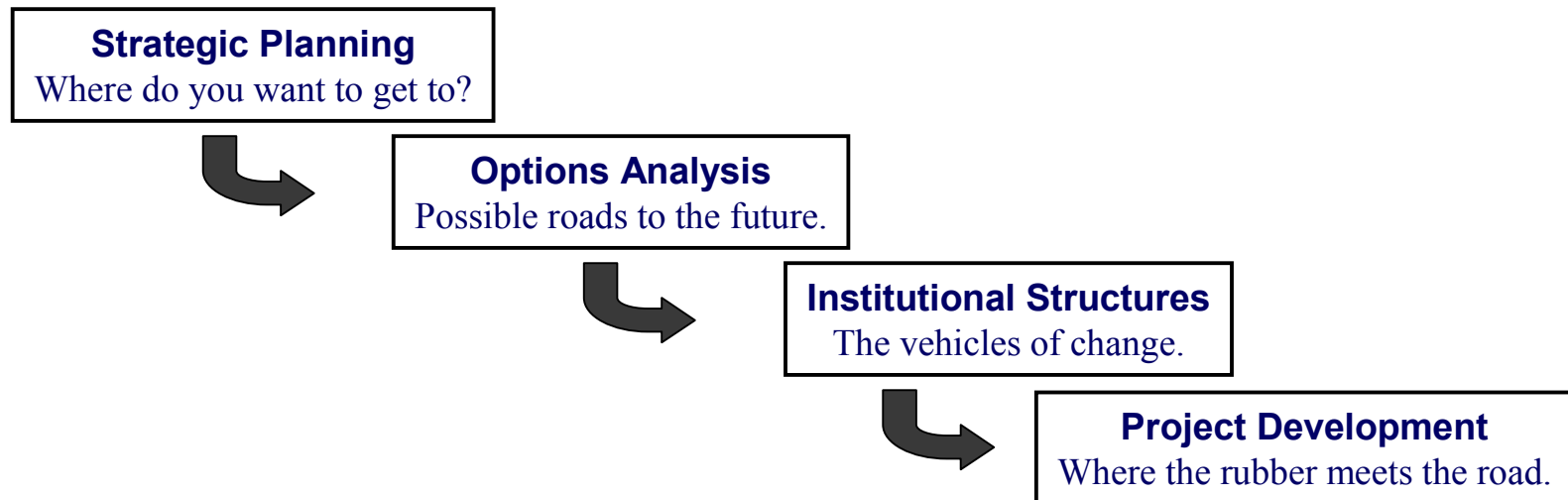
Tribal Energy Program www.eere.energy.gov/tribalenergy





Web-Based Guide to Tribal Energy Development

- Framework for the planning and implementation of energy development strategies
- Tool for addressing energy needs and an aid in achieving energy vision



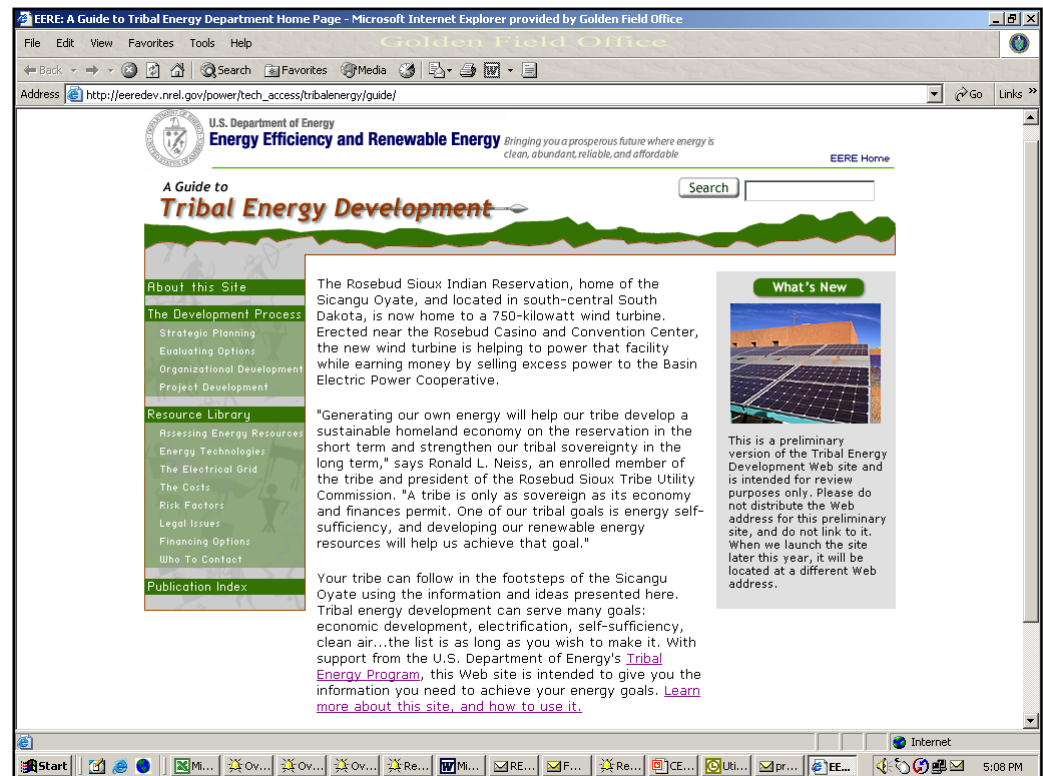
Guide to Tribal Energy Development

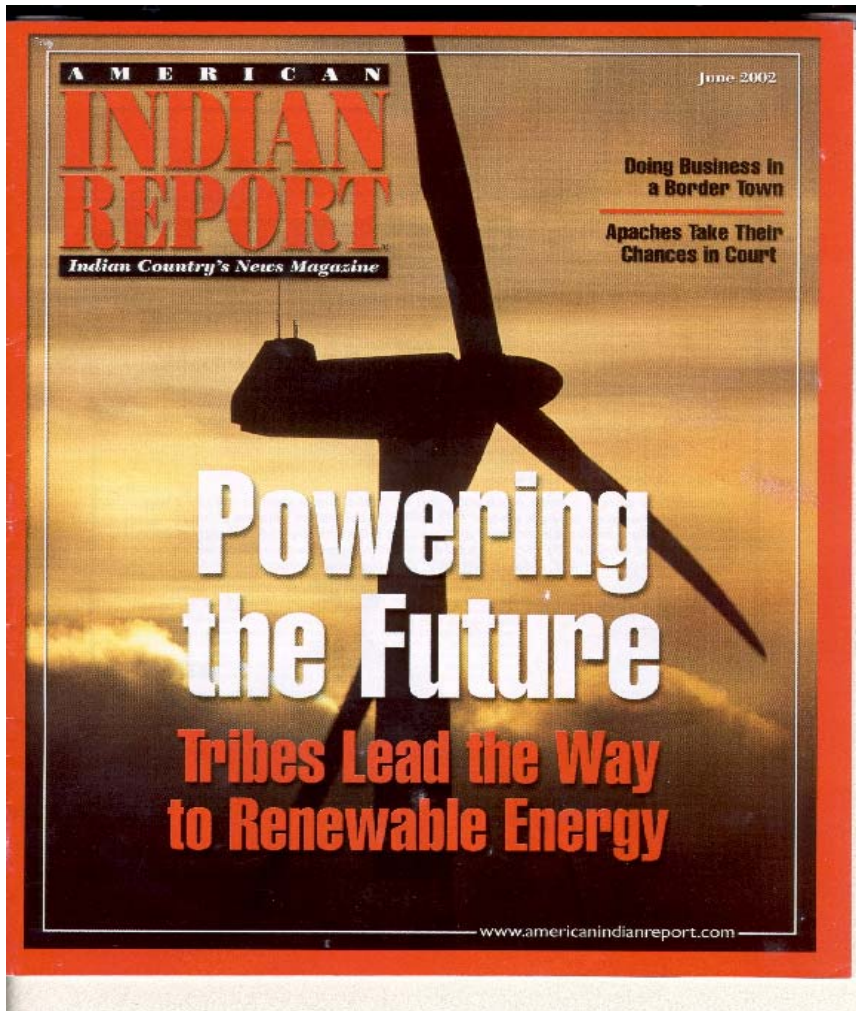
Development Processes

- Strategic Planning
- Options Analysis
- Organizational Development
- Project Development

Resource Library

- Energy Resources
- Technologies
- Costs
- Risk Factors
- Legal Issues
- Financing Options
- Contacts





Questions

“Tribes Leading the Way to Renewable Energy”

**American Indian Report
June 2002**

